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Mauna Loa Solar Observatory Observer's Log
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      Mon Jun 14 15:26:55 GMT 2021
Year: 21 Doy: 165
Observer: lisapq
WEATHER COMMENT: lisapg: Mon Jun 14 16:14:23 GMT 2021
Temp: 37.5f with windspeed at about 6-12mph from the South at present. There are a few bands of cirrus in the Northern par
t of the sky and a bit of a haze but clear overhead.
 end
GENERAL COMMENT BY lisapg: Mon Jun 14 16:30:47 GMT 2021
Opened windows upstairs
 end
GENERAL COMMENT BY lisapq: Mon Jun 14 16:30:50 GMT 2021
PM Blew off Kcor O1
  end
GENERAL COMMENT BY lisapq: Mon Jun 14 16:30:54 GMT 2021
PM Blew off UCoMP 01
  end
GENERAL COMMENT BY lisapg: Mon Jun 14 16:49:51 GMT 2021
Kcor above dome
 end
Mon Jun 14 16:51:20 GMT 2021 Kcor Focus/alignment program exited
Mon Jun 14 16:52:58 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 18:45:46 GMT 2021 KCOR End Patrol
Mon Jun 14 18:45:56 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapq: Mon Jun 14 18:48:44 GMT 2021
Passing cirrus, pushing through
end
Mon Jun 14 18:48:29 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 19:23:56 GMT 2021 KCOR End Patrol
Mon Jun 14 19:23:57 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini
GENERAL COMMENT BY lisapg: Mon Jun 14 19:31:37 GMT 2021
Cirrus crossing during the calibration. Letting it finish.
end
Mon Jun 14 19:33:43 GMT 2021 KCOR ABORT Calibration Script
Mon Jun 14 19:34:00 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 19:34:00 GMT 2021 KCOR Start Synoptic Patrol
GENERAL COMMENT BY lisapq: Mon Jun 14 19:37:31 GMT 2021
Nevermind, aborting calibration and holding off until cirrus has passed.
end
Mon Jun 14 19:39:05 GMT 2021 KCOR End Patrol
Mon Jun 14 19:39:17 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Mon Jun 14 19:40:13 GMT 2021
Too bright for Kcor at present; Stopping Kcor for now.
end
GENERAL COMMENT BY lisapq: Mon Jun 14 19:45:23 GMT 2021
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Sky too bright for UComp, pausing for clouds at present.

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end
Mon Jun 14 19:55:35 GMT 2021 Kcor Focus/alignment program exited
Mon Jun 14 19:59:27 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 20:01:36 GMT 2021 KCOR End Patrol
Mon Jun 14 20:01:37 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini
Mon Jun 14 20:16:53 GMT 2021 KCOR End Calibration Script
Mon Jun 14 20:17:10 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 20:17:10 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 21:24:09 GMT 2021 KCOR End Patrol
Mon Jun 14 21:24:22 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Mon Jun 14 21:25:01 GMT 2021
Band if cirrus passing, Kcor idled a bit
end
Mon Jun 14 21:29:40 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 21:33:16 GMT 2021 KCOR End Patrol
Mon Jun 14 21:33:28 GMT 2021 KCOR End Patrol
Mon Jun 14 21:36:31 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 22:29:59 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapq: Mon Jun 14 22:31:13 GMT 2021
Cirrus crossing, Kcor stopped and UComp paused for clouds
end
Mon Jun 14 22:35:58 GMT 2021 Kcor Focus/alignment program exited
Mon Jun 14 22:39:08 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 22:49:25 GMT 2021 KCOR End Patrol
Mon Jun 14 22:49:26 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Mon Jun 14 22:54:58 GMT 2021
More cirrus again
end
Mon Jun 14 23:23:01 GMT 2021 Kcor Focus/alignment program exited
Mon Jun 14 23:24:28 GMT 2021 KCOR Start Synoptic Patrol
Mon Jun 14 23:35:35 GMT 2021 KCOR End Patrol
Mon Jun 14 23:35:44 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Mon Jun 14 23:39:13 GMT 2021
Sky too bright for Kcor at present
end
Mon Jun 14 23:47:43 GMT 2021 Kcor Focus/alignment program exited
Mon Jun 14 23:49:09 GMT 2021 KCOR Start Synoptic Patrol
Tue Jun 15 00:22:58 GMT 2021 KCOR End Patrol
Tue Jun 15 00:23:11 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapq: Tue Jun 15 00:25:19 GMT 2021
Too bright for Kcor at present.
  end
GENERAL COMMENT BY lisapg: Tue Jun 15 00:35:12 GMT 2021
Hawaiian Telecom technicians came up and texted our phone line. Turns out our answering machine was shorting out phone lin
e. They recommended we either get a new machine or get a combination phone/answering machine or not have one at all.
end
Tue Jun 15 00:53:34 GMT 2021 Kcor Focus/alignment program exited
Tue Jun 15 00:54:54 GMT 2021 KCOR Start Synoptic Patrol
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Tue Jun 15 01:02:09 GMT 2021 KCOR End Patrol
Tue Jun 15 01:02:13 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Tue Jun 15 01:09:22 GMT 2021
Spar in the RA started oscillating, not sure why.

__end__

GENERAL COMMENT BY lisapg: Tue Jun 15 01:11:55 GMT 2021
Spar started oscillating again.

__end__

Tue Jun 15 01:19:01 GMT 2021 Kcor Focus/alignment program exited
Tue Jun 15 01:20:24 GMT 2021 KCOR Start Synoptic Patrol
Tue Jun 15 01:46:20 GMT 2021 KCOR End Patrol
Tue Jun 15 01:46:56 GMT 2021 KCOR End Patrol
GENERAL COMMENT BY lisapg: Tue Jun 15 01:54:25 GMT 2021
Kcor and UComp stopped for Kcor O1 removal.

__end__
GENERAL COMMENT BY berkey: Tue Jun 15 03:22:13 GMT 2021

PM Washed Kcor O1.

Inspection of the O1 showed a small doughnut shaped water spot about 2 inches N-NW of the center of the occulter. There was a cloud of a dozen of small spots about 1 inch from the edge near he East edge. There was also some residue near West and south, both of these were close enough to the edge that they may have been under the aperture stop.

I believe lens artifacts show up in the opposite side of the kcor FOV. So the water spot would show up in the S-SE side. I dont think we have a good radial mapping for how far in the FOV an artifact will show up. Previous work with lens sugg ests to me that only the center ~4 inches contribute to bullet holes to kcor images. I dont think the artifact in the out er inch of the lens contiubte to bullet holes. I am sure they contribute to the background levels and may cause other images issues (that arent artifacts). All that said I don't think I see a clear mapping between stuff on the lens and issues in the kcor images.

| Washing with soap and water appears to clean up all of the artifacts described above. |
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| end |
| GENERAL COMMENT BY berkey: Tue Jun 15 03:24:13 GMT 2021 |
| Cirrus moved in and is too thick to take kcor data so we cannot test the lens cleaning |
| end |
| ONSITE STAFF: berkey, lisapg |